

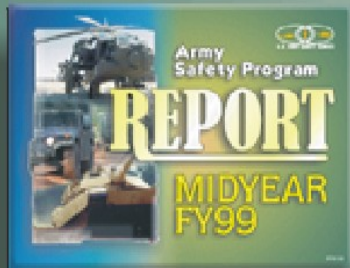


Army Safety Program

REPORT

MIDYEAR FY99





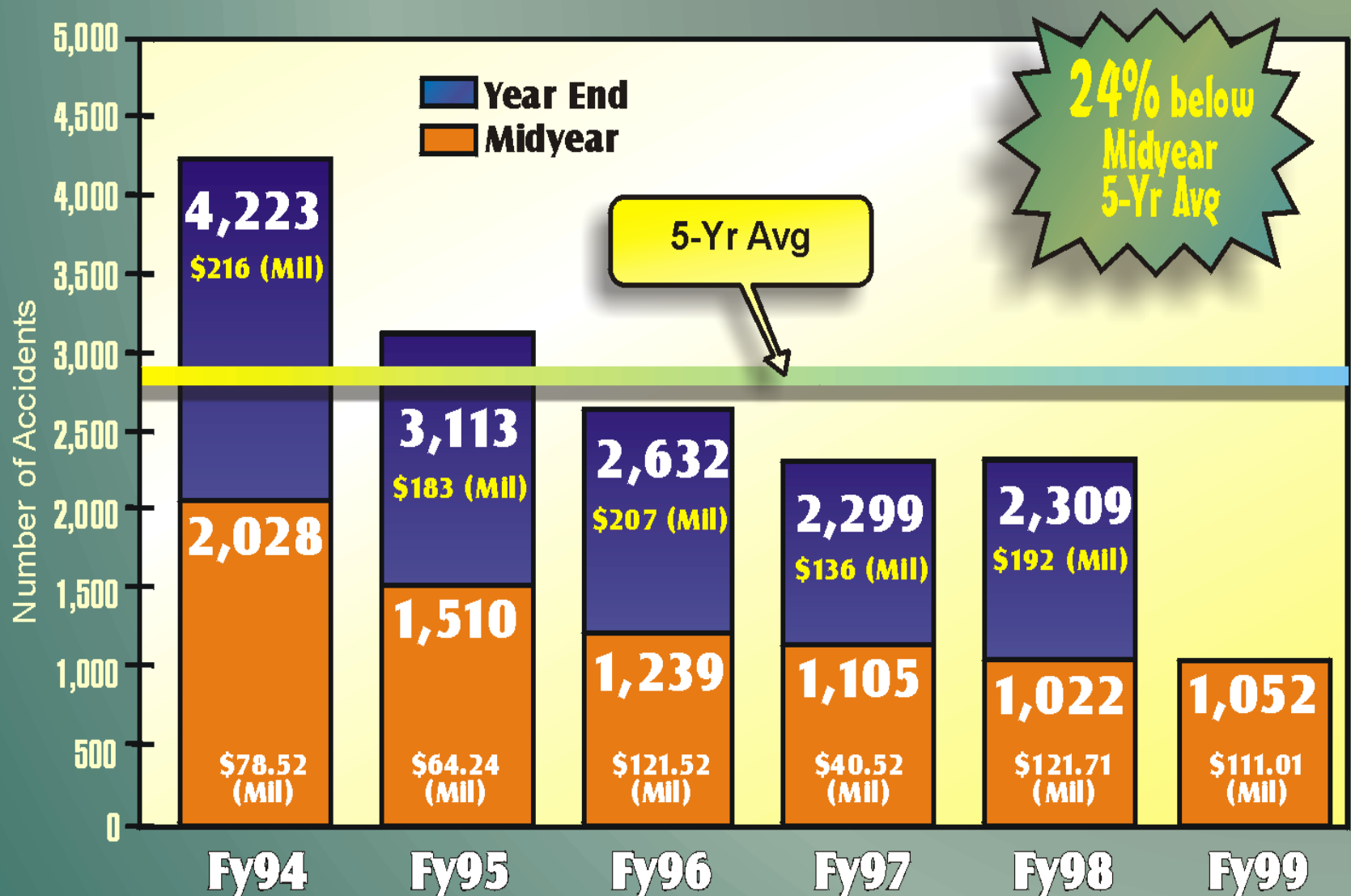
Agenda



■ U.S. Army Safety Program Statistical Overview

- Performance at a Glance
- POV Update - #1 Killer of Army Soldiers
- Aviation

Army Class A-C Accidents (Ground & Aviation)

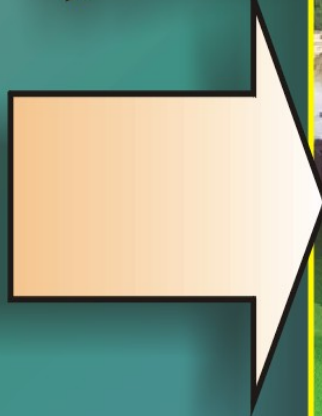


Midyear FY99 Performance at a Glance

<u>Total Army Military Accts</u>	<u>5-Yr Avg</u>	<u>Fy98</u>	<u>FY99</u>
Ground & Aviation Costs (Millions)	1,381 \$85.30	1,022 \$121.71	1,052 \$111.01
<u>Ground (A-C)</u>	<u>5-Yr Avg</u>	<u>Fy98</u>	<u>FY99</u>
Personnel Injury	853 [2.78]	595 [2.05]	604 [2.11]
POV	249 [0.81]	209 [0.72]	229 [0.80]
Military Vehicle	167 [0.54]	115 [0.40]	126 [0.44]
<u>Aviation (Flight Accts)</u>	<u>5-Yr Avg</u>	<u>Fy98</u>	<u>FY99</u>
Class A	6 [1.21]	8 [1.94]	8 [1.88]
Class A-C	44 [8.94]	51 [12.37]	42 [9.86]
<u>Lost-Time Claims</u>	<u>5-Yr Avg</u>	<u>FY98</u>	<u>FY99</u>
Civilian Claims	3,150 [23.23]	2,713 [21.77]	2,536 [21.26]

#1 Killer of Army Soldiers

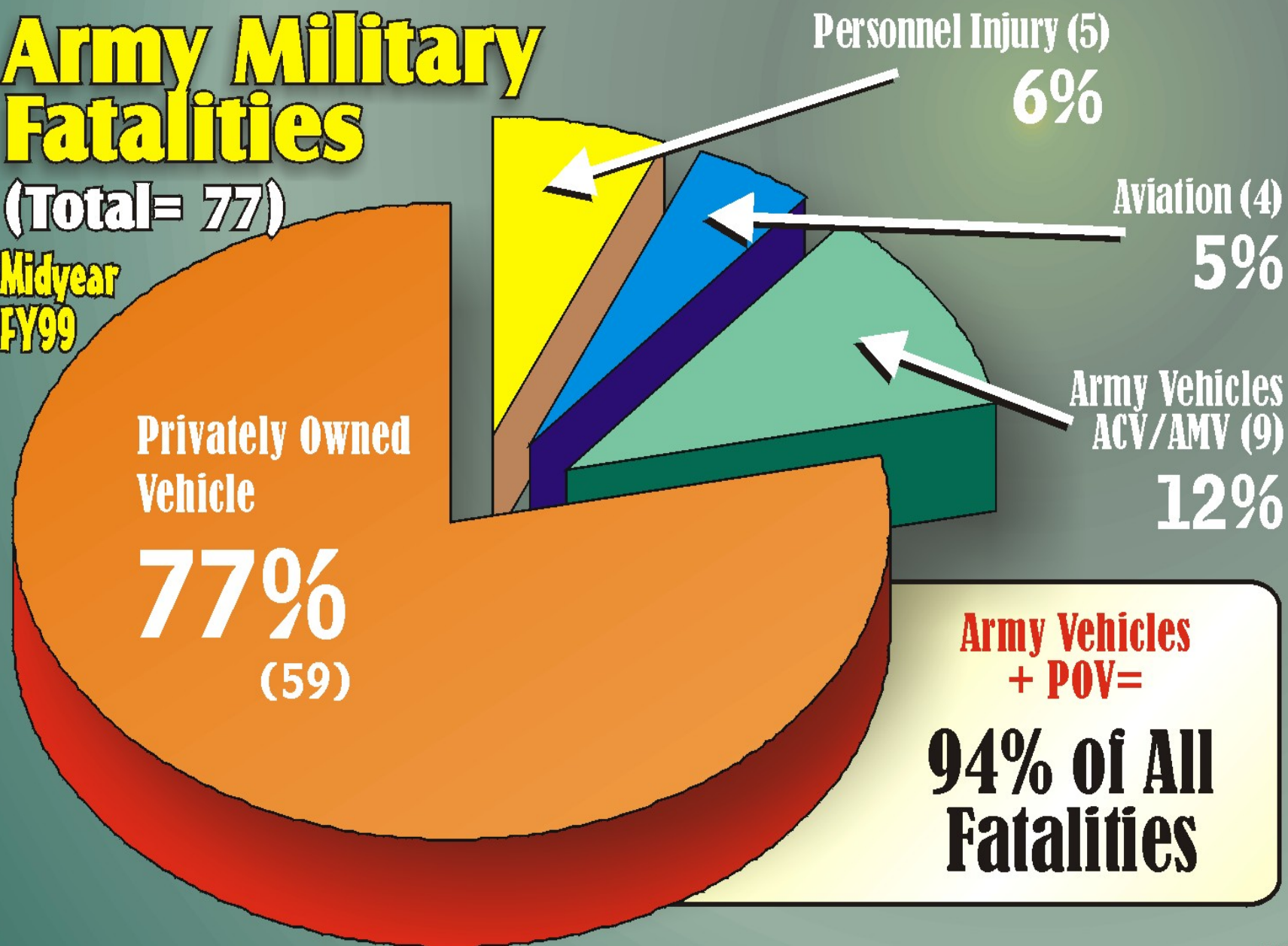
**Privately
Owned
Vehicles**



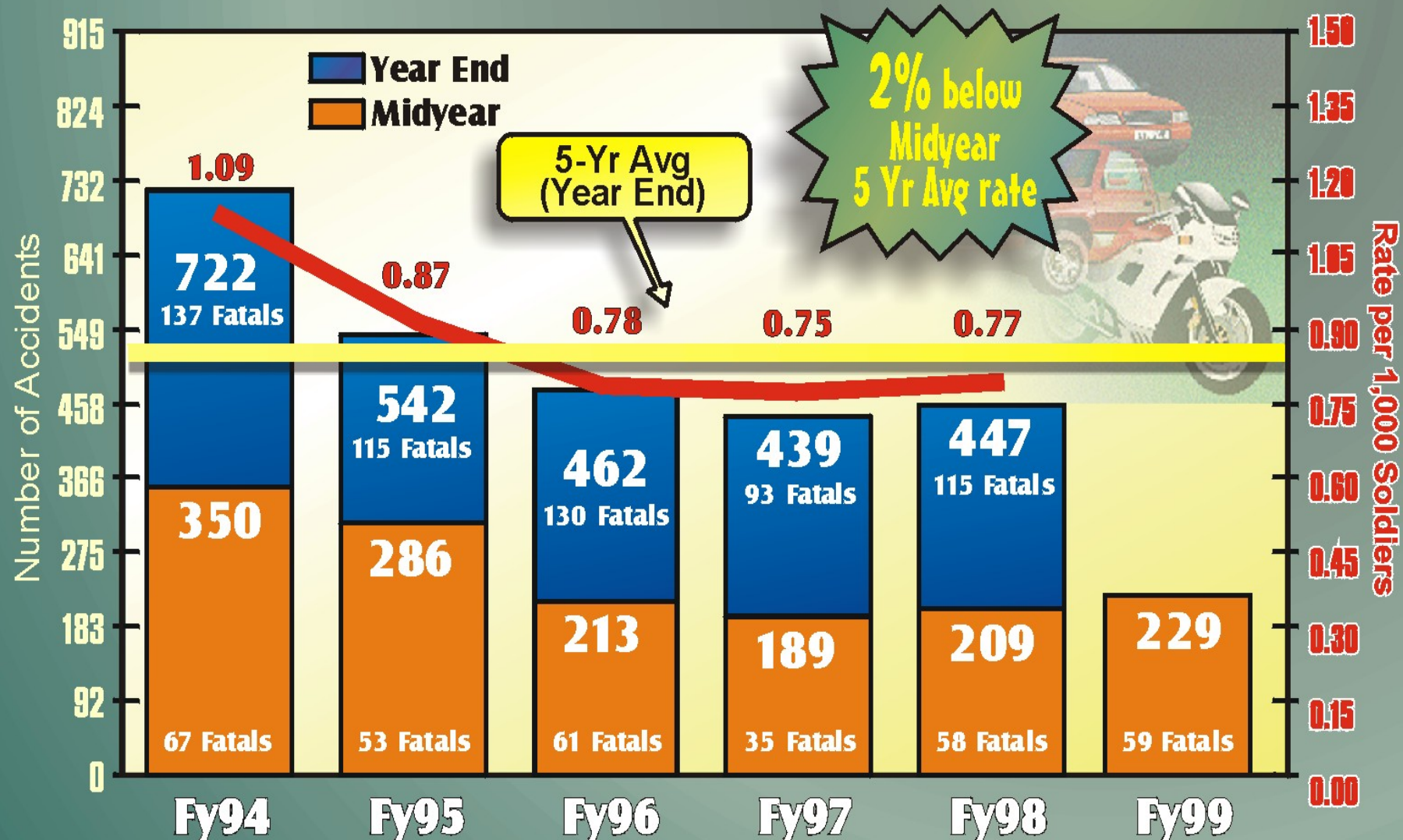
Army Military Fatalities

(Total= 77)

Midyear
FY99



Army POV Accidents (Class A-C)



POV Accidents

In-Depth (FY99 Midyear Class A-C)



67%



12%



15%



3%

Other

3%

Military Driver
Not at Fault

44%

Military Driver
At Fault

56%

This is the
piece we
can affect.

Top 4 Causes (Class A)

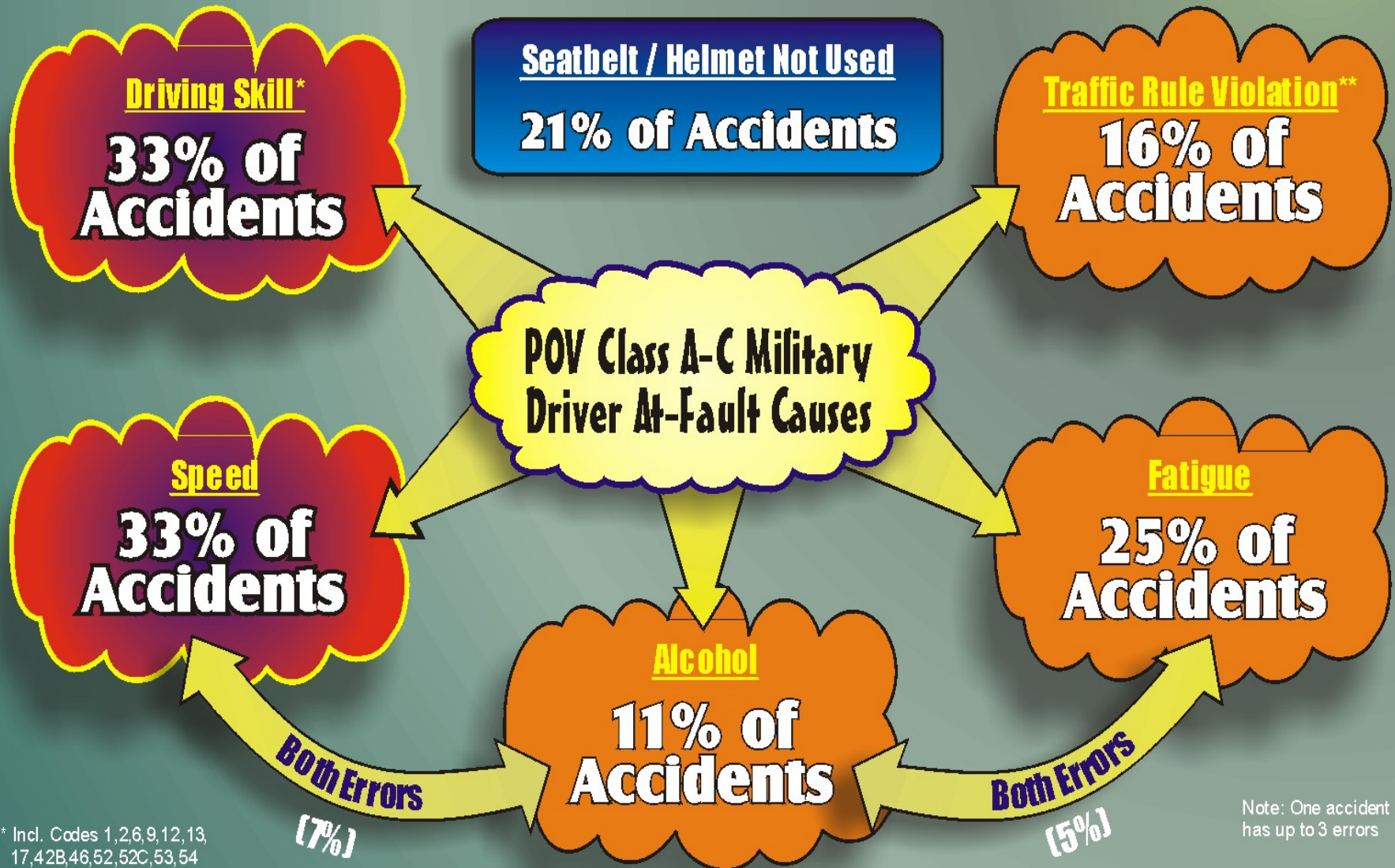
Lost control	50%
Crossed Centerline	18%
Speed	18%
Fatigue	14%

**50% of POV
Accidents**

Caution

Hot Spots

At-Fault POV Class A-C Causes (Midyear FY99)



* Incl. Codes 1,2,6,9,12,13,
17,42B,46,52,52C,53,54

** Incl. Codes 41,42,43,44,49,50,51

Note: One accident
has up to 3 errors

POV Accident Prevention



INDIVIDUALS

- Attack the standard
- Discipline counts

- "Well-trained, well-disciplined driver whose skills result in safe driving on & off duty."

**POSITIVE
HABIT TRANSFER**

Driver Training

Discipline

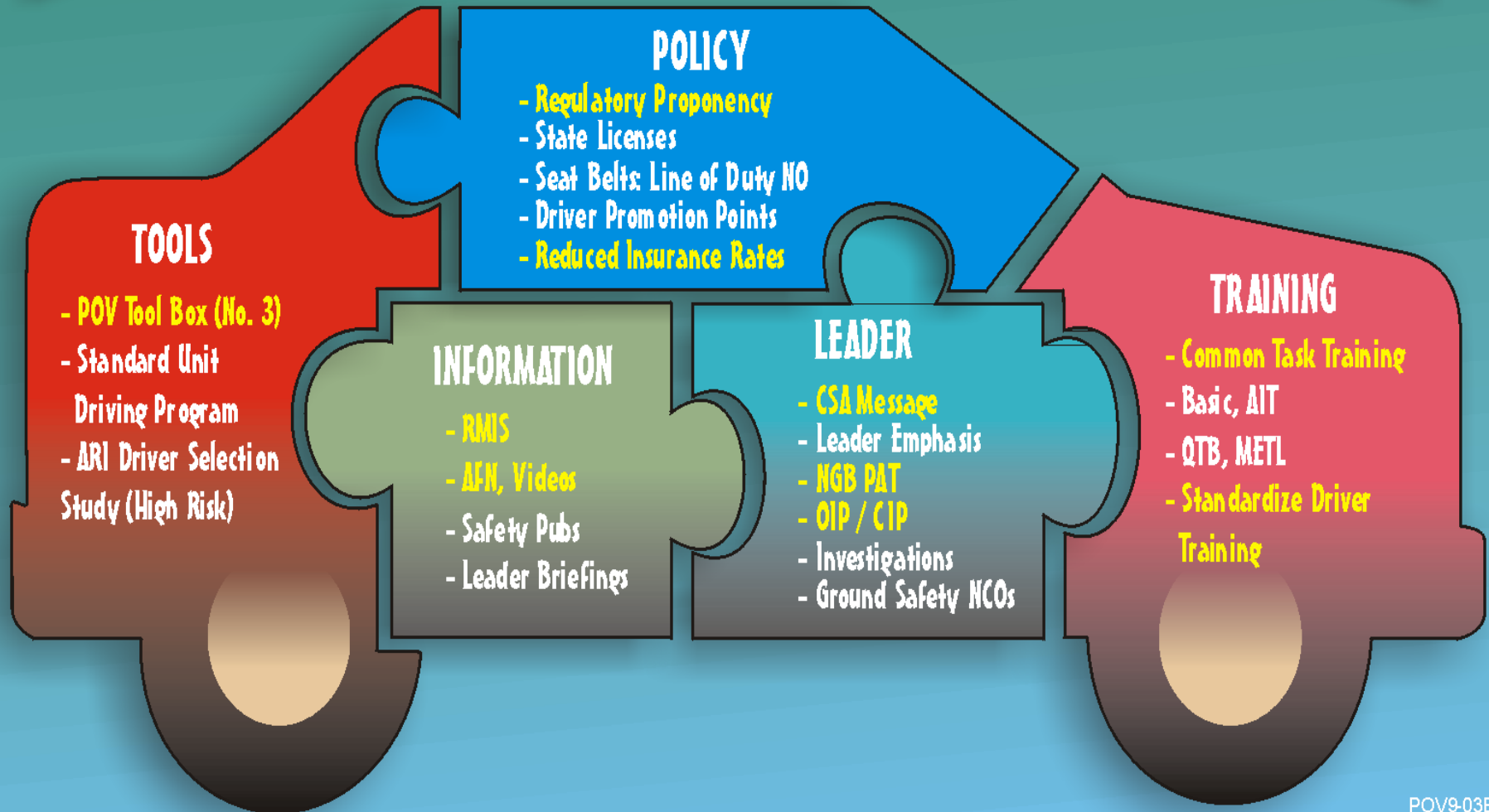
Leadership

Common Task Training

- ✓ **Task 1** Stay alert and fit to drive
- ✓ **Task 2** Operate a vehicle while moving forward and in reverse (Clear the way)
- ✓ **Task 3** Negotiate a curve while operating a motor vehicle (Know your limits)
- ✓ **Task 4** React to road hazards (Share the road)
- ✓ **Task 5** Operate a vehicle within safe distances (Think ahead)
- ✓ **Task 6** Operate a vehicle under various conditions (Feel the road)
- ✓ **Task 7** Operate a vehicle over rough terrain (Know your environment)

Vehicle Driving Initiatives

“Developing well-trained,
well-disciplined driver whose skills result in safe driving on & off duty.”



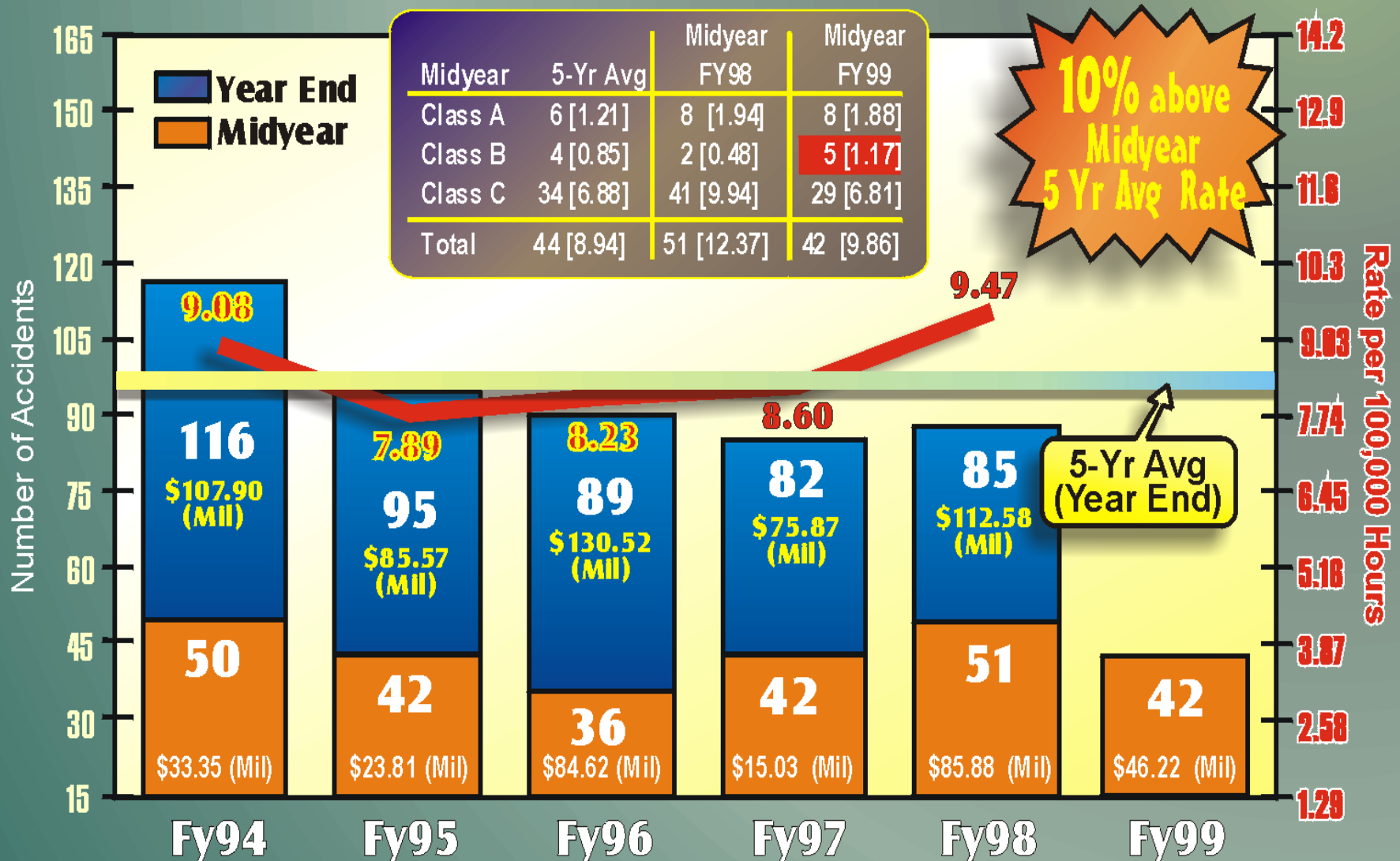
Buckle Up

Army Safety Performance

A collage of military images. In the top left, a tank is visible. In the center, a helicopter is flying. In the bottom left, a soldier in camouflage is holding a rifle. An American flag is also visible in the background.

■ Aviation

Army Aviation Flight Accidents (Class A-C)



Aviation Flight Accidents (Class A-C)

FY95

<u>Community</u>	<u>(Rate)</u>
Attack	14.74
Observation	8.15
Utility	6.17

FY96

<u>Community</u>	<u>(Rate)</u>
Attack	12.35
Observation	8.05
Utility	8.01

FY97

<u>Community</u>	<u>(Rate)</u>
Attack	11.85
Observation	10.06
Utility	7.47

FY98

<u>Community</u>	<u>(Rate)</u>
Attack	17.99
Observation	8.50
Utility	8.32

Top Concerns

- Spatial disorientation
- Nap of the Earth flight
- Crew coordination
- Task saturation

Focus

- Increase flight hours
- Improve training

Class A Army Aviation Accidents

1st QTR FY99

**19% above 1st Qtr
5 Year Average Rate**

Date	Acft	MACOM	Fatal	Description
7 Oct	AH-64D	FORSCOM	0	Gunnery Tng, 30mm Gun Exploded
6 Nov	RC-12K	USAREUR	2	Training Flight, Ground Impact
11 Dec	OH-58D	EUSA	0	Aircraft Impacted Trees

Class A Army Aviation Accidents

2d QTR FY99

**55% above Midyear
5 Year Average Rate**

Date	Acft	MACOM	Fatal	Description
29-Jan	AH64A	TRADOC	0	Tail rotor failure at 400' hover, ground impact
04-Feb	UH60A	EUSA	2	Brownout conditions, ground impact
05-Feb	AH64A	ARNG	0	Impacted trees during night training
08-Feb	CH47D	FORSCOM	0	Engine & hydraulic failure, landed hard
10-Feb	OH58D	TRADOC	0	Uncommanded left roll during slope ops

MISSION: Day Hover Fire Gunnery Operations

Hazards

- ❑ Exceeded established gun duty cycle guidance
- ❑ Inadequate published gun duty cycle guidance
- ❑ EBUCS did not provide full three axis control

Results

- ❑ Aircraft destroyed
- ❑ Minor injuries

Controls

- ❑ Emphasize proper gun duty cycle standards
- ❑ Assess and manage EBUCS discrepancies



Mission: Day VFR RL progression

Hazard

- Investigation ongoing

Suspected

- Unrecoverable spin



Results

- 2 Fatalities
- Aircraft Destroyed
- \$14.5 million lost

Controls

- Investigate spin recovery capability of RC-12
- Validate existing guidance on recovery from stalls

Mission: OH-58D(I) Voice Call for Fire (Copperhead)

Hazards

- ❑ Fatigue
- ❑ Undetected Obstacle
- ❑ Undetected Drift

Results

- ❑ 2 Major Injuries
- ❑ Aircraft Destroyed



Controls

- ❑ Scan
- ❑ Formalized fighter management extension process

MISSION: AH-64A Conducting Day, VFR Student Qualification

Hazards

- ❑ Fatigue Failure of Tail Rotor Drive Shaft Couplings

Results

- ❑ \$15.5 Million Lost
- ❑ 2 Minor Injuries

Controls

- ❑ Replace with - #5 Flange that is less susceptible to corrosion fatigue



Mission: UH60A - Day, VIP Transport During Unit Exercise

Hazards

- ❑ Spatial disorientation in dust landing
- ❑ Lack of crew coordination
- ❑ Human factors influencing decision making (i.e. PIC hesitates to correct his fellow PIC)



Controls

Results

- ❑ Damage cost: \$1.7Mil
- ❑ Injuries: 2 fatalities / 3 minor
- ❑ Damage to sister aircraft

- ❑ Risk Management - hazard identification & controls
- ❑ Crew coordination training
 - Human factors that influence decision making
 - Communications between pilots
 - Communications with other crewmembers
- ❑ Special mission tasks for environmental conditions
- ❑ Proper Execution of the VMC/Go-Around ATM Task

Mission: Night, ATM Training

Hazards

- ❑ NOE / Contour Flight at Night
 - Degraded visual cue environment
- ❑ Complacency
- ❑ Crew Proficiency
 - Too low
 - Too fast



Results

- 1 AH-64 Destroyed
\$15.5 Mil lost
- 2 Partial Permanent Disabilities

Controls

- Utilize and Monitor all available system and visual cues (crew failed to see the trees they flew into despite an optimal FLIR picture and excellent Wx)

Mission: Deploy to Merida Mexico in support of POTUS operations



Hazards

- ▣ Response to in-flight emergencies
- ▣ Complacency

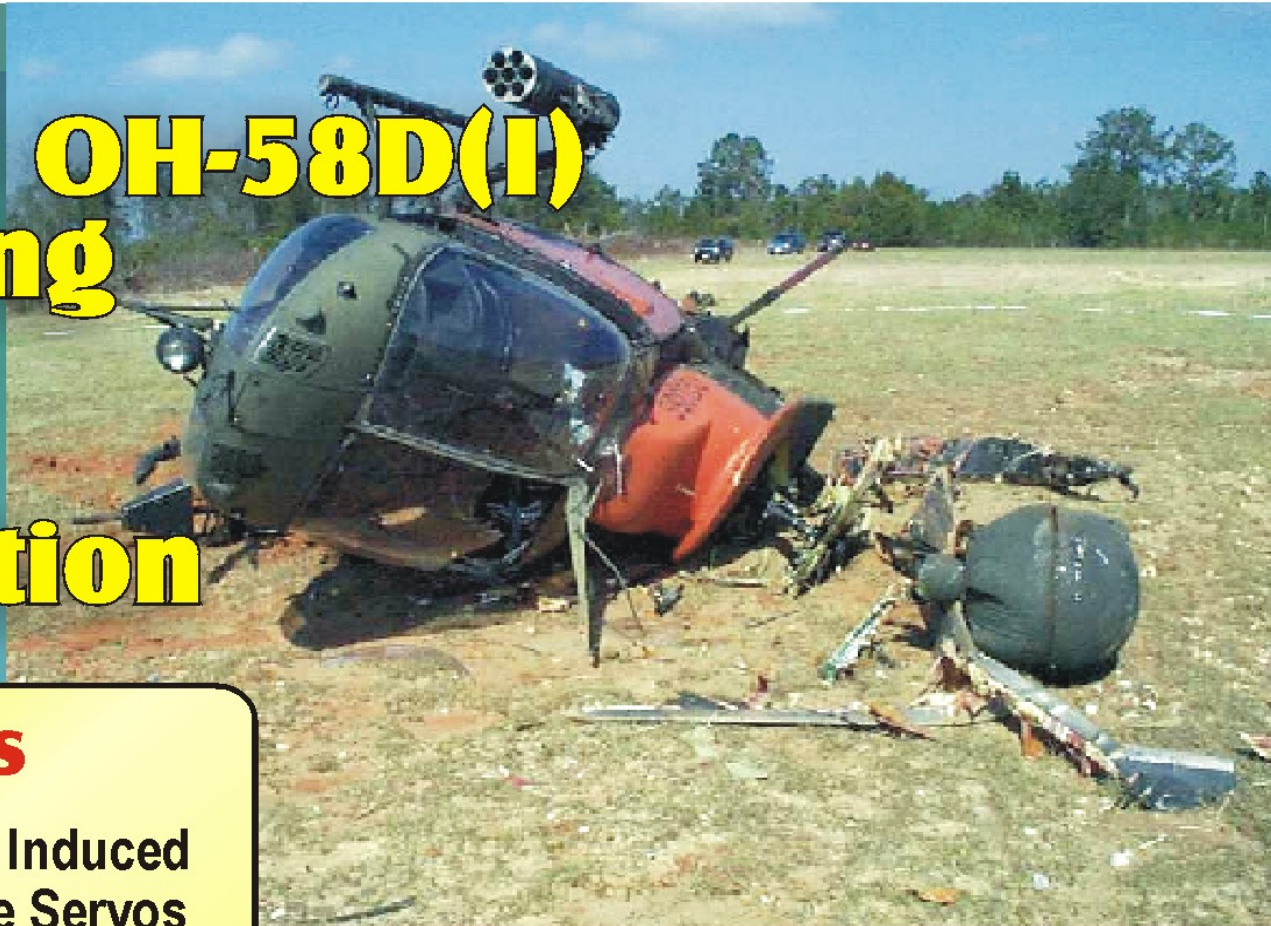
Results

- ▣ Extensive aircraft damage
- ▣ 1 minor injury

Controls

- ▣ Emphasize ATM training
- ▣ Emphasize crew coordination

MISSION: OH-58D(I) Conducting Day, VFR Student Qualification



Hazards

- ❑ Dynamic Roll-Over Induced by Out of Tolerance Servos

Results

- ❑ \$1.89 Million lost
- ❑ No Injuries

Controls

- ❑ Maintenance Check ID Servo Problems during Maintenance Test flight
- ❑ Crews Trained to Recognize Conditions

Aviation Initiatives



- Increase in OPTEMPO flying hours over the POM
- Fully fund legacy simulator improvements
- Fully fund Aviation Combined Arms Tactical Trainer (AVCATT)
- Digital Source Collector (DSC)
- DCSPER Initiatives

Aviation Initiatives Update



- Increase in flying hours

Status
FY99: ↑ 120K Flight Hours over
FY98 Executed
FY00: ↑ \$170M

- Funding of legacy simulator

FY99: \$73M in POM

- Funding of AVCATT

FY99-06: Funded \$261M

- DCSPER Initiatives

Ongoing



Soldiers are our Credentials . . .

Leaders Save Soldiers